QC-ABSTRACT

Name of Work:-: Maintenance of road and Footpath in J P Park in Ward No.17 , BBMP, Bangalore

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	PCC 1:4:8	20.16 Cum	1	1	Cement
					Sand, Aggregates
2	M15	8.64 Cum	2	2	Concrete Cube Compressive Strength
3	Kerb	640.00 No's	1	1	-
4	CC Block 8"	230.40 Sqm	1	1	-

Cubes

0-5 m^3	1set
6-15 m^3	2set
16-30 m^3	3set
31-50 m^3	4 set

Additional 1set for every 50 Cum

Assistant Executive Engineer
Yashavanthpura Sub Division
BBMP Bengaluru

(Seal)

CIVIL QUALITY CONSULTANTS & ENGINEERS * Bangalore

Executive Engineer
Rajarajeshwari Nagara Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 054.

CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Ref. No.: CQCE/BBMP/SCE/17/2021-22 Date: 04.12.2021

CERTIFICATE

Division: Raja Rajeshwari Nagara Division, BBMP, Bangalore.

Name of Work: Maintenance of road and Footpath in J P Park in Ward No.17 , BBMP, Bangalore

Contractor Name: Sri. S Santhosh Kumar, Contractor, Bangalore.

Work Order No.: EE/RRND/Wo. No/000090/2021-22

Running amount Bill: 1st & Final Bill

BR No.:

Work Completed by Contractor: Rs. 1454714.00/-
(Including GST)

This is Certify that all the items of Works have been carried out satisfactorily as per Specifications and Confirm to Morth.

For M/S Civil Quality Consultants and Engineers

Project Management Consultants

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Assistant Executive Engineer
Yashavanthpura Sub Division
BBMP, Bangaluru

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ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/SSK/17/2021-22

Date: 22.10.2021

TEST REPORT ON CEMENT

Client : **Assistance Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Sri. S Santhosh Kumar,** Contractor, Bangalore.

Name of Work : Maintenance of road and Footpath in J P Park in Ward No.17 , BBMP, Bangalore

Sample ID: : Cement (Birla Super 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : September - 2021

Date of Testing : 20.10.2021 to 22.10.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	385 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

Note:

1. The material is Satisfied as per the requirements

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Assistant Executive Engineer
Yashavanthpura Sub Division
BBMP Bengaluru

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/SSK/17/2021-22

Date : 22.10.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : Assistance Executive Engineer, Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : Sri. S Santhosh Kumar, Contractor, Bangalore.

Name of Work : Maintenance of road and Footpath in J P Park in Ward No.17 , BBMP, Bangalore

Date of Testing : 22.10.2021

Material : Sand(Plastering)

Total wt. of aggregat 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	16	1.60	1.60	98.4	95-100
2.36	18	1.80	3.40	96.6	95-100
1.18	25	2.50	5.90	94.1	90-100
600 Micron	85	8.50	14.40	85.6	80-100
300 Micron	245	24.50	38.90	61.1	20-65
150 Micron	485	48.50	87.40	12.6	0-15

Note:

1. The material is Satisfied as per the requirements

Assistant Executive Engineer
Yashavanthpura Sub Division
BBMP Bengaluru

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/SSK/17/2021-22 Date : 22.10.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : Assistance Executive Engineer, Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : Sri. S Santhosh Kumar, Contractor, Bangalore.

Name of Work : Maintenance of road and Footpath in J P Park in Ward No.17 , BBMP, Bangalore

Date of Testing : 22.10.2021

Material : Sand(Masonry) Total wt. of aggregat 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	20	2.00	2.00	98.0	90-100
1.18	24	2.40	4.40	95.6	70-100
600 Micron	83	8.30	12.70	87.3	40-100
300 Micron	248	24.80	37.50	62.5	5-70
150 Micron	488	48.80	86.30	13.7	0-15

Note:
1. The material is Satisfied as per the requirements.

Assistant Executive Engineer
Yashavanthpura Sub Division
BBMP Bengaluru

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/SSK/17/2021-22

Date : 22.10.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Assistance Executive Engineer, Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : Sri. S Santhosh Kumar, Contractor, Bangalore.

Name of Work : Maintenance of road and Footpath in J P Park in Ward No.17 , BBMP, Bangalore

Date of Testing : 22.10.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	81	8.10	8.10	91.9	90-100
2.36	115	11.50	19.60	80.4	75-100
1.18	184	18.40	38.00	62.0	55-90
600 Micron	219	21.90	59.90	40.1	35-59
300 Micron	175	17.50	77.40	22.6	8-30
150 Micron	185	18.50	95.90	4.1	0-10

Note:

1. The material is Satisfied as per the requirements.

Assistant Executive Engineer
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Job No.: CQCE/BBMP/SSK/17/2021-22

Date : 22.10.2021

TEST REPORT ON COARSE AGGREGATES

Client : Assistance Executive Engineer, Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : Sri. S Santhosh Kumar, Contractor, Bangalore.

Name of Work : Maintenance of road and Footpath in J P Park in Ward No.17 , BBMP, Bangalore

Date of Testing : 22.10.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	189	1.26	1.26	98.74	95-100
20	8366	55.77	57.03	42.97	30-70
10	2844	18.96	75.99	24.01	10-35
4.75	2999	19.99	95.99	4.01	0-5

Note:

1. The material is Satisfied as per the requirements.

Assistant Executive Engineer
Yashavanthpura Sub Division
BBMP Bengaluru

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Job No.: CQCE/BBMP/SSK/17/2021-22

Date : 22.10.2021

TEST REPORT ON COARSE AGGREGATES

Client : Assistance Executive Engineer, Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : Sri. S Santhosh Kumar, Contractor, Bangalore.

Name of Work : Maintenance of road and Footpath in J P Park in Ward No.17 , BBMP, Bangalore

Date of Testing : 22.10.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	190	3.8	3.8	96.2	95-100
10	2655	53.1	56.9	43.1	25-55
4.75	1758	35.2	92.1	7.9	0-10

Note:

1. The material is Satisfied as per the requirements.

Assistant Executive Engineer
Yashavanthpura Sub Division
BBMP Bengaluru

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/SSK/17/2021-22

Date: 22.10.2021

KERB STONE (CORE) TEST REPORT

Client : : Assistance Executive Engineer, Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : : Sri. S Santhosh Kumar, Contractor, Bangalore.

Name of Work : : Maintenance of road and Footpath in J P Park in Ward No.17 , BBMP, Bangalore

No.of Sample Tested : 03

Date of Testing : 22.10.2021

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.359	2314.39	1.58	0.955	27.80	14.16	15.29	14.60	18.25
2	50.00	83.00	0.383	2350.12	1.66	0.963	28.20	14.36	15.51	14.94	18.68
3	50.00	85.00	0.399	2390.69	1.70	0.968	29.30	14.92	16.12	15.59	19.49

Note:

1. The material is Satisfied as per the Requirements.

Assistant Executive Engineer
Yashavanthpura Sub Division
BBMP Bengaluru

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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MR 26, Row House, Nandi

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/SSK/17/2021-22

Date 25.10.2021

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : Assistance Executive Engineer, Yeshwanthpura Sub Division, BBMP,

Agency : Sri. S Santhosh Kumar, Contractor, Bangalore.

Name of the Work : Maintenance of road and Footpath in J P Park in Ward No.17 , BBMP, Bangalore

Date of Testing 25.10.2021

Size of Blocks 400mm*200mm*200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	33.6	326.4	4.08	2100.00	Minimum required Compressive Strength of Individual Units 4.00N/mm^2
2	Block 2	34.8	329.7	4.12	2175.00	
3	Block 3	32.9	330.9	4.14	2056.25	
4	Block 4	34.5	335.6	4.20	2156.25	

Note:

1. The Material is Satisfied as per the Requirements.

Assistant Executive Engineer
Yashavanthpura Sub Division
BBMP Bengaluru

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/SSK/17/2021-22

Date: 05.11.2021

TEST REPORT ON CONCRETE CUBES

Client : Assistance Executive Engineer, Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : Sri. S Santhosh Kumar, Contractor, Bangalore.

Name of the work : Maintenance of road and Footpath in J P Park in Ward No.17 , BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.10.2021	05.11.2021	8.081	273.7	12.16
2	29.10.2021	05.11.2021	8.002	282.8	12.57
3	29.10.2021	05.11.2021	8.123	296.7	13.19

Note:

1. The Material is Satisfied as per the Requirements.

Assistant Executive Engineer
Yashavanthpura Sub Division
BBMP Bengaluru

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/SSK/17/2021-22

Date: 26.11.2021

TEST REPORT ON CONCRETE CUBES

Client : **Assistance Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Sri. S Santhosh Kumar,** Contractor, Bangalore.

Name of the work : Maintenance of road and Footpath in J P Park in Ward No.17 , BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.10.2021	26.11.2021	8.083	367.8	16.35
2	29.10.2021	26.11.2021	8.186	379.5	16.87
3	29.10.2021	26.11.2021	8.035	388.4	17.26

Note:

1. The Material is Satisfied as per the Requirements.

Assistant Executive Engineer
Yashavanthpura Sub Division
BBMP Bengaluru

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/SSK/17/2021-22

Date: 05.11.2021

TEST REPORT ON CONCRETE CUBES

Client : **Assistance Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Sri. S Santhosh Kumar,** Contractor, Bangalore.

Name of the work : Maintenance of road and Footpath in J P Park in Ward No.17 , BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.10.2021	05.11.2021	8.064	263.6	11.72
2	29.10.2021	05.11.2021	8.166	275.3	12.24
3	29.10.2021	05.11.2021	8.110	287.9	12.80

Note:

1. The Material is Satisfied as per the Requirements.

Assistant Executive Engineer
Yashavanthpura Sub Division
BBMP Bengaluru

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Job No.: CQCE/BBMP/SSK/17/2021-22

Date: 26.11.2021

TEST REPORT ON CONCRETE CUBES

Client : Assistance Executive Engineer, Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : Sri. S Santhosh Kumar, Contractor, Bangalore.

Name of the work : Maintenance of road and Footpath in J P Park in Ward No.17 , BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.10.2021	26.11.2021	8.123	374.3	16.64
2	29.10.2021	26.11.2021	8.198	388.7	17.28
3	29.10.2021	26.11.2021	8.056	392.5	17.44

Note:

1. The Material is Satisfied as per the Requirements

Assistant Executive Engineer
Yashavanthpura Sub Division
BBMP Bengaluru

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